FUTABA

.5" FLUORESCENT DISPLAY 5LT43

ELECTRICAL PIN CONNECTIONS

PIN NUMBER	ELECTRICAL CONNECTION
1	F1
2	No Pin
3	NC
4	G4
5	d
6	e
7	f
8	G4
9	a
10	G3
11	Colon 1
12	NC
13	NC
14	G3
15	b
16	Gc
17	c
18	g
19	G2
20	NC
21	NC
22	UB
23	G2
24	Colon 2
25	G1
26	LB
27	NC
28	NC
29	G1
30	NC
31	No Pin
32	F2

SCOPE

This specification covers the requirements for a flat glass multi-digit vacuum fluorescent display. A digit consists of seven segments. Top and bottom rows of indicator bars or other characters will appear where applicable. The display is a direct heating filament display with anode character selection.

1. Features:

The device FJ3088 is 4-digit fluorescent display panel. In addition to the 4 numericals the display features 10 bar indicators and a colon indicator. It is ideal for use in timer clock and other such appliances.

Color of illumination : Blue-green

2. Outer Dimension and Segment Pattern : As per next page.

3. Maximum Electrical Ratings:

	Symbol	min.	max.	Unit
Filament Voltage	Ef	2.7	3.3	Vac
Anode, Grid Voltage	eb,ec	-	34.0	Vp-p
Operating Temperature	Topr	-20	+70	C
Strage Temperature	Tstg	-55	+80	C

4. Recommended Operating Conditions:

	Symbol		Unit
Filament Voltage	Ef	3.0	Vac
Anode, Grid Voltage	eb,ec	26.0	Vp-p
Cathode Bias	*Ek	4.0	Vdc
Duty Factor	Du	1/7.5	-
Pulse Width	tp	-	µS
Brightness	L	180	ft-L

5. Electrical Characteristics:

(Symbol)	Test Conditions	min.	typ.	max.	Unit
Filament Current (If)	Ef= 3.0 Vac	108	120	132	mA
Anode Current (Ib/dig)	Ef= 3.0 Vac	-	5.5	9.4	mA
COLON	ebb,ecc= 30.0 Vp-p	-	2.2.	3.8	mA
	*Ek= 4.0 Vdc				
Grid Current (Ic/dig)	Du= 1/7.5	-	10.5	17.5	mA
COLON	tp= 80 µS	-	5.0	8.5	mA
Brightness (L)		90	180	-	ft-L
Grid Cut-off Voltage (Ecco)	Ef= 3.0 Vac, Ec=vary Eb= 26 Vdc	-6.5	-5.0	-	Vdc
Anode Cut-off Voltage (Ebco)	Ef= 3.0 Vac, Eb=vary Ec= 26 Vdc	-3.0	-1.5	-	Vdc

Ek indicated * mark is supplied to the center tap of the filament transformer.

THIS IS NOT A FINAL SPECIFICATION, AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

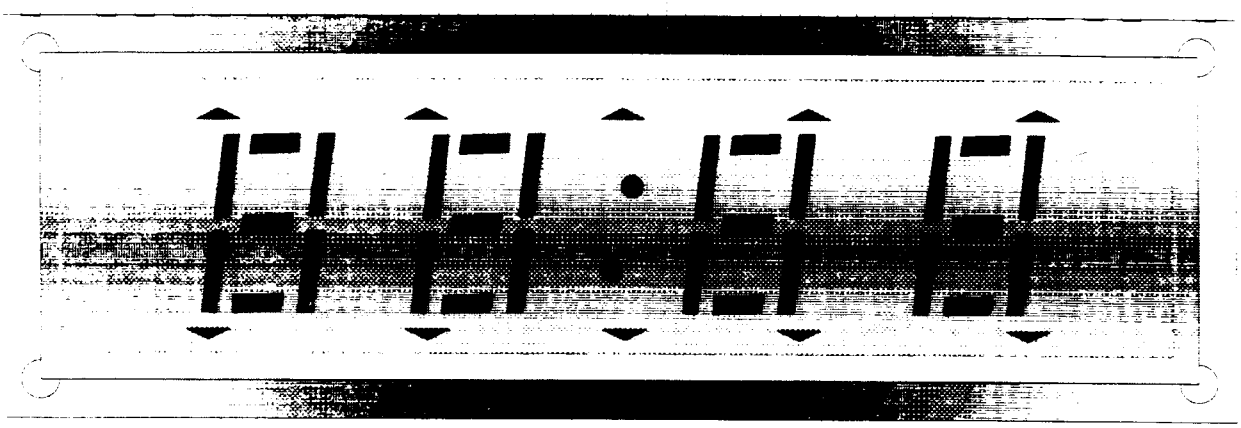
→42112

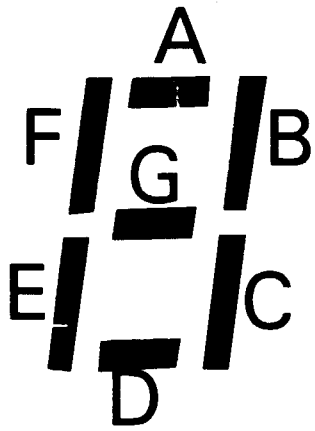
FUTABA

.5" FLUORESCENT DISPLAY

F1 F2

1 NP NC G4 D E F G4 A G3 CL1 NC NC G3 B GC C G G2 NC NC UB G2 COL2 G1 LB MC NC G1 NC NP 32





5LT43